

BLINDERN, den 22-6-1955.

Dear Dr. J. Lederberg.

It was a great pleasure for me to receive your interesting letter. Your reprints have not arrived yet, but I think they are not sent by air-mail and therefore take longer time. I send you today several of my reprints. Unfortunately most of my reprints are not in english. My second Norwegian paper (published in Naturen 12, 1954) contains some point of view which are very close to them you express in your letter, except for questions of definition. I also make a distinction between bacteria like  $K_{12}$  with complete genofores (containing an intact genome) and bacteria like several Salmonella with uncomplete genophores (containing fragments of bacterial genome as in the transduction system). Even your Paramecium example was used in the paper (see fig. 1 and 2 pages 373 and 375).

The papers on "Sumbiogenesis" of Keller and Kozo Polionsky are published in Russian and they were quoted in Operins book "The origin of life". I suggest you may write to Operin if you are interested in a microfilm.

I will probably come back to the U.S. in January 1956. I shall work together with Doermann in Rochester for several months on theoretical and mathematical problems, concerning the interpretation of the crossreactivation phenomena in phages.

If you also have matematical problems, for instance if you want to calculate the experimental consequences of a theory you would like to test, you may tell me and I would be very glad to help you if I can. I am particularly interested in theories concerning the relationship between phages and lysogenic bacteria.

Sincerely yours

*Nils Aall Barricelli*

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